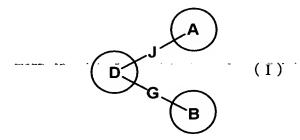
CLAIMS

1. A compound of formula (I):



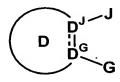
wherein ring A, ring B, and ring D each independently represents a cyclic group which may be substituted;

J represents a bond or a spacer having 1 to 8 atoms in its main chain; and G represents a bond or a spacer having 1 to 4 atoms in its main chain; or a salt thereof.

2. The compound according to claim 1, wherein



is



wherein D^J and D^G each independently represents a carbon atom or a nitrogen atom; and ____ represents a single bond or a double bond, and when ____ represents a double bond, D^J and D^G each represents a carbon atom.

- 3. The compound according to claim 2, wherein ring D is a carbocyclic ring which may be substituted.
- 4. The compound according to claim 2, wherein ring D is a heterocyclic ring which may be substituted.
- 5. The compound according to claim 4, wherein the heterocyclic ring is a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s).
 - 6. The compound according to claim 2, wherein

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

is

$$R^{D}$$
 or M

wherein R^D represents a substituent of ring D; and

M represents a 3- to 11-membered monocyclic or bicyclic cyclic group which may be substituted.

7. The compound according to claim 6, wherein

is

wherein R^D has the same meaning as described in claim 6.

- 8. The compound according to claim 1, wherein ring A is a carbocyclic ring which may be substituted.
- 1.9. The compound according to claim 1, wherein ring A is a heterocyclic ring which may be substituted.
- 10. The compound according to claim 8, wherein the carbocyclic ring is a C3-15 monocyclic, bicyclic or tricyclic carbocyclic ring.
- 11. The compound according to claim 9, wherein the heterocyclic ring is a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s).

- 12. The compound according to claim 10, wherein the carbocyclic ring is a benzene ring or a naphthalene ring.
- 13. The compound according to claim 11 wherein the heterocyclic ring is a pyridine ring, a pyrazole ring, a dioxaindane ring or a benzodioxane ring.
- 14. The compound according to claim 1, wherein ring B is a carbocyclic ring which may be substituted.
- 15. The compound according to claim 1, wherein ring B is a heterocyclic ring which may be substituted.
- 16. The compound according to claim 14, wherein the carbocyclic ring is a C3-15 monocyclic, bicyclic or tricyclic carbocyclic ring.
- 17. The compound according to claim 15, wherein the heterocyclic ring is a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s).
- 18. The compound according to claim 16, wherein the carbocyclic ring is a C3-8 monocyclic carbocyclic ring.
- 19. The compound according to claim 17, wherein the heterocyclic ring is a 3- to 8-membered monocyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s).
- 20. The compound according to claim 18, wherein the carbocyclic ring is a benzene ring.
- 21. The compound according to claim 19, wherein the heterocyclic ring is a pyridine ring or a thiophene ring.
- 22. The compound according to claim 1, wherein J is a spacer having 1 to 8 atoms in its main chain and containing at least one oxygen atom.
 - 23. The compound according to claim 22, wherein the oxygen atom binds to ring D.
 - 24. The compound according to claim 22, wherein J is

$$R^3$$
 R^4 E

wherein R³ and R⁴ each independently represents hydrogen or C1-8 alkyl; and

E represents a bond or a spacer having 1 to 6 atoms in its main chain.

- 25. The compound according to claim 24, wherein R^3 and R^4 each independently represents hydrogen or methyl.
 - 26. The compound according to claim 24, wherein E is a bond,
- 27. The compound according to claim 24, wherein E is a spacer having 1 to 6 atoms in its main chain.
- 28. The compound according to claim 27, wherein E is C1-4 alkylene or C1-3 alkyleneoxy.
 - 29. The compound according to claim 28, wherein E is methylene or methylenoxy.
- 30. The compound according to claim 1, wherein G is a spacer having 1 to 4 atoms in its main chain and containing at least one nitrogen atom.
- 31. The compound according to claim 30, wherein G is -NR^{T1}-, -NR^{T1}-SO₂-, -NR^{T1}-CO-, -NR^{T1}-CO-NR^{T2}-, -NR^{T1}-SO₂-NR^{T2}-, -NR^{T1}-COO-, -NR^{T1}-O-, -NR^{T1}-NR^{T2}-, -NR^{T1}-W-, -SO₂-NR^{T1}-, -CO-NR^{T1}-, -OCO-NR^{T1}-, -O-NR^{T1}- or W-NR^{T1}-, wherein W represents a bivalent C1-3 aliphatic hydrocarbon group which may be substituted; R^{T1} and R^{T2} each independently represents hydrogen, C1-8 alkyl which may be substituted, C2-8 alkenyl which may be substituted, C2-8 alkynyl which may be substituted or a 3- to 8-membered cyclic group which may be substituted.
 - 32. The compound according to claim 31, wherein G is -NH-SO₂-.
- 33. The compound according to claim 1, wherein the compound is a compound of war formula (A):

$$R^3$$
 E^1
 A^1
 $(R^5)_p$
 R^2
 N
 O
 B^1
 $(R^6)_q$

wherein R¹ and R² each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) halogen, (6) cyano, (7) nitro, (8) -CONR⁷R⁸, (9) -COOR⁹, (10) Cyc1 or (11) C1-8 alkyl substituted with 1 to 5 groups selected from (a) -CONR⁷R⁸, (b) -COOR⁹, (c) -OR¹⁰, (d) -NR¹¹R¹², (e) halogen, and (f) Cyc1; or

R¹ and R² are taken together to represent C3-4 alkylene, -CH=CH-CH₂-, -CH₂-CH=CH-, -CH=CH-CH=CH- or -CH=CH-CH₂-, wherein the carbocyclic ring to be formed may be substituted with C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, C1-8 alkoxy, halogen, cyano, nitro or hydroxyl, wherein R⁷ and R⁸ each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc2, (6) -OR¹³ or (7) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1 to 5 groups selected from (a) -OR¹³, (b) -NR¹⁴R¹⁵, (c) -NR¹⁶COR¹⁷, (d) halogen, (e) CF₃, and (f) Cyc2; or

R⁷ and R⁸ are taken together with the adjacent nitrogen atom to represent a 3- to 8-membered monocyclic heterocyclic ring having at least one nitrogen atom as a hetero atom(s) and 0 to 3 nitrogen atoms, 0 to 1 oxygen atom and/or 0 to 1 sulfur atom as an other hetero atom(s), wherein the heterocyclic ring may be substituted with (a) C1-8 alkyl, (b) halogen, (c) hydroxyl, or (d) C1-8 alkyl substituted with hydroxyl;

R¹³ to R¹⁷ each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cycl, or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cycl;

R⁹ to R¹² each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc1, or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc1;

Cycl represents a C3-15 monocyclic, bicyclic or tricyclic carbocyclic ring or a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s), wherein Cycl may be substituted with 1 to 5 of R¹⁸;

 R^{18} represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) halogen, (5) cyano, (6) nitro, (7) trifluoromethyl, (8) trifluoromethoxy, (9) $-OR^{19}$, (10) $-SR^{20}$, (11) $-NR^{21}R^{22}$, (12) $-COR^{23}$, (13) $-COR^{24}$, (14) $-NR^{25}COR^{26}$, (15) $-CONR^{27}R^{28}$, (16) Cyc2, or (17) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1 to 5 groups selected from (a) halogen, (b) cyano, (c) nitro, (d) trifluoromethyl, (e) trifluoromethoxy, (f) $-OR^{19}$, (g) $-SR^{20}$, (h) $-NR^{21}R^{22}$, (i) $-COR^{23}$, (j) $-COOR^{24}$, (k) $-NR^{25}COR^{26}$, (l) $-CONR^{27}R^{28}$, and (m) Cyc2;

R¹⁹ to R²⁸ each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc2, or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc2;

Cyc2 represents a C3-8 monocyclic carbocyclic ring or a 3- to 8-membered monocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s), wherein Cyc2 may be substituted with 1 to 5 of R²⁹;

R²⁹ represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) halogen, (5) cyano, (6) nitro, (7) hydroxyl, (8) trifluoromethyl, (9) trifluoromethoxy, or (10) -OR¹⁰⁰; R¹⁰⁰ represents C1-8 alkyl.:

R³ and R⁴ each independently represents hydrogen or C1-8 alkyl;

E¹ represents a bond or C1-6 alkylene, wherein a carbon atom in the alkylene group may be substituted with oxygen, sulfur, or -NR³⁰-;

R³⁰ represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) phenyl, or (5) C1-8 alkyl substituted with phenyl;

ring A¹ represents a C3-15 monocyclic, bicyclic or tricyclic carbocyclic ring or a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s);

R⁵ represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) halogen, (5) cyano, (6) nitro, (7) trifluoromethyl, (8) trifluoromethoxy, (9) -OR³¹, (10) -NR³²R³³, (11) -NR³⁴COR³⁵, (12) Cyc3,

or (13) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1 to 5 groups selected from (a) halogen, (b) cyano, (c) nitro, (d) trifluoromethyl, (e) trifluoromethoxy, (f) -OR³¹, (g) -NR³²COR³³, (h) -NR³⁴COR³⁵, and (i) Cyc3;

R³¹ to R³⁵ each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc3, or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1 to 5 groups selected from (a) Cyc3, (b) -OR³⁶ and (c) -NR³⁷R³⁸;

 R^{36} to R^{38} each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) -QR³⁹, or (4) -NR⁴⁰R⁴¹; R^{39} to R^{41} each independently represents hydrogen or C1-8 alkyl;

Cyc3 represents a C3-8 monocyclic carbocyclic ring or a 3- to 8-membered monocyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s);

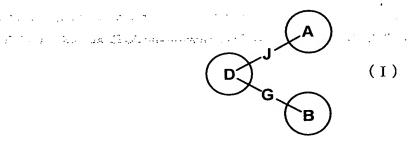
ring B¹ represents a C3-15 monocyclic, bicyclic or tricyclic carbocyclic ring or a 3- to 15-membered monocyclic, bicyclic or tricyclic heterocyclic ring having 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or 1 or 2 sulfur atoms as a hetero atom(s);

 R^6 represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) halogen, (5) cyano, (6) nitro, (7) trifluoromethyl, (8) trifluoromethoxy, (9) $-OR^{42}$, (10) $-NR^{43}R^{44}$, (11) $-SR^{101}$, (12) $-SO_2R^{102}$, (13) $-COR^{103}$, (14) $-COOR^{104}$, (15) Cyc2, or (16) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1 to 5 groups selected from (a) $-COOR^{104}$, (b) $-NR^{105}COR^{106}$, and (c) Cyc2; R^{42} to R^{44} and R^{101} to R^{106} each independently represents (1) hydrogen, (2) C1-8 alkyl, (3) Cyc2, or (4) $-COR^{107}$, or (5) C1-8 alkyl substituted with 1 to 5 halogen atoms;

R¹⁰⁷ represents C1-8 alkyl; and

p and q each independently represents 0 or an integer of 1 to 5.

- 34. A prodrug for the compound according to claim 1.
- 35. A pharmaceutical composition which comprises the compound of formula (I):



wherein ring A, ring B, and ring D each independently represents a cyclic group which may be substituted; J represents a bond or a spacer having 1 to 8 atoms in its main chain; and G represents a bond or a spacer having 1 to 4 atoms in its main chain; or a salt thereof.

- 36. The pharmaceutical composition according to claim 35, which is a chemokine receptor antagonist.
- 37. The pharmaceutical composition according to claim 36, wherein the chemokine receptor is CCR4.

- 38. The pharmaceutical composition according to claim 37, which is a preventive and/or therapeutic agent for CCR4-mediated diseases.
- 39. The pharmaceutical composition according to claim 38, wherein the CCR4-mediated diseases are inflammatory and/or allergic diseases, metabolism and/or endocrine system diseases, cancer diseases or infections.
- 40. The pharmaceutical composition according to claim 39, wherein the CCR4-mediated diseases are inflammatory and/or allergic diseases.
- 41. The pharmaceutical composition according to claim 40, wherein the inflammatory and/or allergic diseases are respiratory diseases or dermatosis.
- 42. The pharmaceutical composition according to claim 41, wherein the respiratory diseases are asthma.
- 43. The pharmaceutical composition according to claim 41, wherein the dermatosis is atopic dermatitis.
- 44. A method for preventing and/or treating CCR4-mediated diseases in a mammal, which comprises administering to a mammal an effective amount of the compound according to claim 1 or a salt thereof.
- 45. Use of the compound according to claim 1 or a salt thereof for the manufacture of a preventive and/or therapeutic agent for CCR4-mediated diseases.
- 46. A pharmaceutical composition which comprises: a preventive and/or therapeutic agent for CCR4-mediated diseases, which comprises the compound according to claim 1 or a salt thereof as an active ingredient; and one or at least two medicaments selected from a bronchodilator drug, a steroid drug, a non-steroidal antiinflammatory drug, a leukotriene receptor antagonist, a phosphodiesterase inhibitor, an immunosuppressant, an anti-allergic drug, a mediator-release inhibitor, an antihistamine drug, a metabolism promoter and/or a chemokine inhibitor.
- 47. The pharmaceutical composition according to claim 35, which is an inhibitor of effector cell function.
- 48. The pharmaceutical composition according to claim 47, which is an inhibitor of cell migration function.
- 49. The pharmaceutical composition according to claim 35, which is a TNF α regulator.